

Use of ASPEN Plus in Modeling Systems Containing Hydrofluoric Acid

R.S. Basu and R.R. Singh
Buffalo Research Laboratory
AlliedSignal, Inc.
Buffalo, NY 14210 U.S.A.

R.A. Smith
AlliedSignal, Inc.
Morristown, NJ 07962 U.S.A.

Non-ideal association in the vapor phase of HF poses a challenge in modeling. In this paper, a hybrid HF equation in ASPEN and an equation by Anderko and co-workers are compared. Anderko *et al.* used a general framework to combine simple association model with a van der Waal's type equation. This formulation help to represent the phase behavior of HF and halocarbon mixtures especially for systems containing two liquid phases.